# **Lesson 3 Reteach**

# **The Percent Proportion**

A percent proportion compares part of a quantity to a whole quantity for one ratio and lists the percent as a number over 100 for the other ratio.

 $\frac{\text{part} \rightarrow p}{\text{whole} \rightarrow w} = \frac{n}{100} \Big\} \text{ percent}$ 

## **Example 1**

#### What percent of 24 is 18?

$\frac{p}{w} = \frac{n}{100}$	Percent proportion
Let $n\%$ represent the percent.	
$\frac{18}{24} = \frac{n}{100}$	Write the proportion.
$18 \times 100 = 24 \times n$	Find the cross products.
1,800 = 24n	Simplify.
$\frac{1,800}{24} = \frac{24n}{24}$	Divide each side by 24.
75 = n	
So, 18 is 75% of 24.	

### **Example 2**

#### What number is 60% of 150?

$\frac{p}{w} = \frac{n}{100}$	Percent proportion
Let $n\%$ represent the percent.	
$\frac{n}{150} = \frac{60}{100}$	Write the proportion.
$n \times 100 = 150 \times 60$	Find the cross products.
100n = 9,000	Simplify.
$\frac{100n}{100} = \frac{9,000}{100}$	Divide each side by 100
n = 90	
So, 90 is 60% of 150.	

### **Exercises**

#### Find each number. Round to the nearest tenth if necessary.

1. What number is 25%	of 20? 2	What percent of 50 is 30?
<b>3.</b> 30 is 75% of what nu	mber? <b>4.</b>	40% of what number is 36?
5. What number is 20%	of 625? <b>6.</b>	12 is what percent of 30?